

Abstract

A parallel processor computer interconnect router comprises a multicasting module and a gathering module. The multicasting module is operable to receive a single incoming multicast packet comprising a destination identifier identifying a plurality of destination nodes, and to output multiple unicast packets, each of the multiple unicast packets comprising a destination header identifying a single destination node from among the plurality of destination nodes. The gathering module is operable to receive unicast reply packets from the plurality of destination nodes, and to output a combined multicast reply packet.

10